



PATENT ABSTRACTS OF JAPAN

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(57) Abstract:

PURPOSE: To prepare a gas separating membrane of high selectivity and permeability by using a copolymer mainly consisting of amine component having siloxane structure and polyisocyanate component.

CONSTITUTION: Amine component and polyisocyanate shown in Formula I and Formula II are reacted. In said process, amine component shown in Formula II should be less than 45mol% of the whole. Provided component shown in Formula II is too much, permeation speed is increased and selectivity is lowered, and membrane properties can be controlled by adding quantity of component. As polyisocyanate, 4,4'-diphenylmethane diisocyanate, 4,4'-diphenyl ether diisocyanate or the like

is used. 10ppmW10wt% of diamine component solution is coated on a porous substrate, and then 10ppmW10wt% of polyisocyanate component solution is contacted to manufacture a separating membrane.

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